

# Executive Summary Report

## SMOG CHECK Statewide

January 2009

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	868,751	110,607	12.73%
Total	1,005,995	141,970	14.11%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	744,874	85.74%	123,877	14.26%
Total	845,772	84.07%	160,223	15.93%

#### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	457,500	85.86%	75,333	14.14%
Total	522,204	84.94%	92,605	15.06%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	16,460	1.89%
All Emissions	54,490	6.27%
All Visual	13,033	1.50%
All Functional	35,438	4.08%
OBDII	41,240	4.75%
Overall	110,607	12.73%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	699,461	89,963	12.86%	13,193	1.89%
Partially Enhanced	43,411	6,475	14.92%	941	2.17%
Basic	77,627	9,267	11.94%	1,547	1.99%
Change of Ownership	5,276	783	14.84%	200	3.79%
No Program	6	1	16.67%	1	16.67%
Unknown Program	42,970	4,118	9.58%	578	1.35%
Total Program Area	868,751	110,607	12.73%	16,460	1.89%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	532,833	73,890	13.87%	11,601	2.18%
Regular	251,173	23,478	9.35%	2,923	1.16%
Basic Area Dealer	4,676	248	5.30%	29	0.62%
Gold Shield in Enhanced Area	64,021	10,538	16.46%	1,477	2.31%
Gold Shield in Basic Area	6,417	1,103	17.19%	180	2.81%
Gold Shield in COO Area	4,418	597	13.51%	148	3.35%
Business Fleet	40	2	5.00%	0	0.00%
Permanent Fleet Registered	80	12	15.00%	1	1.25%
Referee	720	376	52.22%	78	10.83%
Government Fleet	4,371	363	8.30%	23	0.53%
Unknown Privilege	1	0	0.00%	0	0.00%
Total	868,751	110,607	12.73%	16,460	1.89%

#### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	269,396	241,182
Directed Vehicles	263,437	216,318
Total	532,833	457,500

#### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	53,995	46,125
Directed Vehicles	20,862	15,775
Total	74,857	61,900

**6. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1934	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1965	2	1	50.00%	50.00%	50.00%	0.00%	0.00%	0.00%
MY-1968	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	2	1	50.00%	0.00%	0.00%	0.00%	50.00%	0.00%
MY-1975	8	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	1,247	380	30.47%	20.37%	9.78%	18.52%	8.02%	0.00%
MY-1977	1,782	534	29.97%	18.57%	8.08%	19.75%	8.81%	0.00%
MY-1978	2,040	646	31.67%	20.25%	10.00%	20.69%	9.17%	0.00%
MY-1979	2,380	769	32.31%	20.42%	9.20%	20.80%	8.61%	0.00%
MY-1980	1,439	433	30.09%	21.06%	10.84%	18.35%	8.96%	0.00%
MY-1981	1,599	506	31.64%	23.95%	12.26%	18.64%	9.76%	0.00%
MY-1982	1,856	559	30.12%	22.41%	9.91%	16.49%	8.73%	0.00%
MY-1983	2,433	777	31.94%	24.46%	11.34%	17.39%	8.10%	0.00%
MY-1984	4,678	1,417	30.29%	23.71%	11.63%	17.06%	7.89%	0.00%
MY-1985	6,407	1,849	28.86%	22.29%	10.96%	16.28%	6.43%	0.00%
MY-1986	8,990	2,548	28.34%	20.98%	9.97%	16.22%	6.26%	0.00%
MY-1987	10,755	3,036	28.23%	21.60%	8.78%	15.05%	5.53%	0.00%
MY-1988	13,256	3,526	26.60%	19.57%	7.61%	14.88%	4.77%	0.00%
MY-1989	18,115	4,267	23.56%	17.01%	6.30%	13.38%	3.77%	0.00%
MY-1990	21,745	4,893	22.50%	16.09%	5.65%	12.27%	3.07%	0.00%
MY-1991	24,849	5,301	21.33%	15.33%	4.92%	11.35%	2.74%	0.00%
MY-1992	25,479	5,154	20.23%	14.38%	4.78%	10.40%	2.63%	0.00%
MY-1993	29,957	6,750	22.53%	17.06%	4.25%	10.43%	2.76%	0.00%
MY-1994	36,020	7,037	19.54%	12.89%	2.97%	10.11%	2.30%	0.00%
MY-1995	48,010	7,832	16.31%	10.97%	2.48%	7.85%	2.00%	0.00%
MY-1996	38,495	7,268	18.88%	7.92%	1.34%	1.93%	1.54%	13.03%
MY-1997	58,243	8,411	14.44%	5.44%	0.92%	1.45%	1.08%	10.08%
MY-1998	50,518	6,786	13.43%	4.11%	0.79%	1.17%	1.01%	10.14%
MY-1999	77,832	6,689	8.59%	2.02%	0.40%	0.70%	0.67%	6.79%
MY-2000	59,585	6,344	10.65%	2.08%	0.51%	0.85%	0.78%	8.86%
MY-2001	104,324	6,852	6.57%	0.81%	0.20%	0.57%	0.45%	5.65%
MY-2002	55,358	4,467	8.07%	0.89%	0.23%	0.64%	0.56%	7.14%
MY-2003	107,763	4,035	3.74%	0.32%	0.08%	0.34%	0.26%	3.24%
MY-2004	14,477	494	3.41%	0.30%	0.07%	0.26%	0.17%	2.95%
MY-2005	21,617	674	3.12%	0.17%	0.05%	0.22%	0.12%	2.77%
MY-2006	6,672	187	2.80%	0.19%	0.07%	0.19%	0.19%	2.37%
MY-2007	4,758	114	2.40%	0.13%	0.02%	0.13%	0.13%	2.02%
MY-2008	5,186	54	1.04%	0.08%	0.06%	0.23%	0.15%	0.71%
MY-2009	872	16	1.83%	0.57%	0.46%	0.23%	0.23%	1.15%
All Model Years	868,751	110,607	12.73%	6.27%	1.89%	4.08%	1.50%	4.75%

## 7. Referee Activity

	Certificates Issued
Certificate of Compliance	556
Certificate of Non Compliance	0
Parts Cost	96
Hardship Extensions	261
Exempt Vehicle	66
Exempted by Directive	115
Parts Exemption	7
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,101</b>

## 8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,125
Stations Locked-Out at Least Once	137
Stations Conducted at Least One Test	7,125

## 9. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,862	5,923
EA	Gas Endorsement	9	0
EB	Both Endorsement	50	0
EB	Gas Endorsement	513	0
GU	Both Endorsement	20	0

## 10. Inspection Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	449,470	49.20	54,794	50.30	504,264	49.32
Test and Repair	158,139	47.34	83,164	47.30	241,303	47.32
Test and Repair Dealer	28	64.82	4,582	49.90	4,610	49.99
Referee	318	30.00	159	30.00	477	30.00
Gold Shield in Enhanced Area	48,764	48.60	13,037	46.18	61,801	48.09
Gold Shield in Basic Area	0	0.00	6,262	40.10	6,262	40.10
Gold Shield in COO Area	42	43.14	4,320	51.07	4,362	51.00

## 11. Repair Costs

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	7,802	22.12	<b>24,972</b>	<b>212.14</b>
	\$51-150	6,376	99.99		
	\$151-250	3,744	199.77		
	\$251-450	4,106	337.34		
	Over \$450	2,944	799.72		
CAP Repairs	\$0-50	148	22.26	<b>5,253</b>	<b>390.81</b>
	\$51-150	306	109.07		
	\$151-250	545	207.08		
	\$251-450	1,904	354.47		
	Over \$450	2,350	522.76		
Total Repairs	\$0-50	6,397	22.37	<b>26,116</b>	<b>281.45</b>
	\$51-150	4,995	99.93		
	\$151-250	3,737	201.60		
	\$251-450	5,410	344.71		
	Over \$450	5,577	733.36		

## 12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	4,951	390.81

## 13. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	9	4	1	0	2	2	0	0
Acceleration Simulation Mode (ASM)	Basic	Referee	1	2	0	0	0	2	1	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	59	7	1	0	2	3	2	1
Acceleration Simulation Mode (ASM)	Basic	Test Only	40	9	2	1	3	5	3	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	1	2	0	1	0	2	0	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	30	9	1	1	5	3	2	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	36,236	7,688	1,037	373	2,783	3,872	2,496	913
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	122	5	1	75	31	21	3
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	0	6	1	0	1	3	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	173	234	47	101	44	121	88	131
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	115,427	11,230	1,143	548	6,136	4,174	2,683	1,108
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	382,185	65,062	10,214	3,575	21,393	36,166	21,589	7,700
Acceleration Simulation Mode (ASM)	No Program	Test Only	3	1	1	0	0	1	0	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	3,428	875	131	44	322	428	303	118
Acceleration Simulation Mode (ASM)	Partial	Referee	8	20	5	8	2	9	11	11
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,952	3,194	433	166	1,044	1,585	1,068	398
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	17	3	0	0	1	2	0	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	10,834	1,963	312	119	638	1,065	643	239
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,546	284	40	20	115	149	74	42
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	201	12	0	46	138	29	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	37	22	6	9	6	13	10	13
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	11,481	1,122	149	73	506	510	301	143

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,551	1,629	260	109	716	826	416	224
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,636	1,019	166	66	330	363	417	145
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	466	79	15	4	22	27	40	8
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	5,341	950	160	56	339	296	404	175
Two Speed Idle (TSI)	Basic	Government Fleet	0	7	2	0	3	3	1	0
Two Speed Idle (TSI)	Basic	Referee	35	46	8	22	16	14	13	28
Two Speed Idle (TSI)	Basic	Test and Repair	45,100	5,710	925	296	2,005	1,896	2,380	660
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,354	207	28	10	80	58	77	31
Two Speed Idle (TSI)	Basic	Test Only	7,489	1,227	239	70	466	479	424	145
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	43	8	2	0	3	3	2	3
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,748	373	107	23	87	192	152	42
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	205	45	9	5	11	17	22	10
Two Speed Idle (TSI)	Change of Ownership	Referee	6	6	0	3	2	1	3	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,540	206	45	12	71	83	81	24
Two Speed Idle (TSI)	Change of Ownership	Test Only	825	139	37	10	24	79	53	21
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	331	24	4	2	11	8	5	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	501	38	4	3	18	11	11	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	5,060	581	92	34	299	154	169	88
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	19	4	0	9	8	2	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	16	5	0	1	1	1	1	4
Two Speed Idle (TSI)	Enhanced	Referee	50	33	6	14	12	12	6	17
Two Speed Idle (TSI)	Enhanced	Test and Repair	21,809	1,366	143	55	846	301	312	115
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	458	19	1	0	17	1	3	1
Two Speed Idle (TSI)	Enhanced	Test Only	40,438	3,524	491	158	2,043	1,012	760	291
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	46	7	1	1	4	2	0	1
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	54	5	0	0	1	2	2	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	402	40	4	2	27	10	4	3
Two Speed Idle (TSI)	Partial	Test and Repair	2,175	244	35	12	123	69	70	26

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	55	6	0	0	4	1	2	0
Two Speed Idle (TSI)	Partial	Test Only	1,029	116	20	6	64	31	37	10
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	224	45	7	8	17	12	21	13
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	946	92	21	13	26	43	36	21
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	643	71	3	5	38	15	20	12
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	13	0	0	8	1	4	0
Two Speed Idle (TSI)	Unknown Program	Referee	43	11	6	3	1	8	3	5
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,169	397	49	26	223	107	103	51
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	372	11	0	1	7	1	4	1
Two Speed Idle (TSI)	Unknown Program	Test Only	3,096	219	25	10	137	58	49	20
UnKnown TestType	Enhanced	Referee	6	1	0	0	0	1	0	1